

SPACE STATION DEFENDER

By Paul Shultz

In *Space Station Defender* you are requested (strangely enough) to defend a space station. You only have one missile left and your automatic missile control has

broken down. You operate in the fourth quadrant and guide the missile by giving it an angle from 180 degrees. This is because of the radar scan display. Instructions are

detailed in the listing and the only point to remember is that even in levels 2 to 5 velocity does not change. A comma must also be typed behind the angle figure.

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10 CLS
11 COLOR7
13 GOSUB1800
15 PRINT@165,"STATION DEFENDER"
16 PRINT@229,"WRITTEN BY PAUL SHULTZ"
20 FORI=1TO2000:NEXTI
30 CLS
32 GOSUB1800
33 PRINT@165,"INSTRUCTIONS"
34 PRINT@229,"Y - 180":PRINT@293,"N - 0"
35 Q$=INKEY$:IFQ$=""THEN35
36 IFQ$="N"THEN340
37 REM INSTRUCTIONS
39 CLS
40 PRINT"YOUR COMPUTER DETECTED AN UN- IDENTIFIED SPACECRAFT";
50 PRINT" ENTERING YOUR QUADRANT,OBJECT DOES NOT RESPOND TO";
60 PRINT" SIGNALS ACCORDING TO GALAXY FEDERATION REGULATIONS.";
70 PRINT" IT IS ASSUMED, THAT OBJECT IS ANENEMY SHIP AND";
80 PRINT" DECIDED TO ATTACKIT. UNFORTUNATELY DUE TO ";
90 PRINT"REARMAMENT OF YOUR STATION YOU ARE LEFT WITH ONLY ";
100 PRINT"ONE MISSILE TO DESTROY ENEMY SHIP. THIS IS AN OLD";
110 PRINT" MODEL WHICH IS NOT CONNECTEDTO YOUR COMPUTER "
120 PRINT"HIT RETURN KEY TO CONTINUE"
130 INPUTQ$
140 CLS
150 PRINT"EVEN THOUGH YOUR MISSILE IS GUIDED MANUALLY YOU ";
160 PRINT"HAVE A COMPUTER TO HELP YOU."
170 PRINT"INFORMATION YOU HAVE AVIABLE IS:"
180 PRINT"1.COORDINATES OF ENEMY SHIP"
190 PRINT"2.COORDINATES OF YOUR MISSILE"
200 PRINT"3.DISTANCE SHIP - MISSILE"
210 PRINT"4.DISTANCE SHIP - YOUR STATION"
220 PRINT"5.RADAR SCAN OF YOUR QUADRANT. TO CALL IT PRINT ";
230 PRINT"LETTER 'R' IN SPACE FOR YOUR DIRECTION.TO CALL ";
240 PRINT"INFORMATION ON YOUR SCREEN BACK PRESS SPACE ";
245 PRINT"KEY"
250 PRINT"HIT RETURN KEY TO CONTINUE"
260 INPUTQ$
270 CLS
280 PRINT"YOU GUIDE YOUR MISSILE BY GIVINGIT AN ANGLE IN YOUR";
290 PRINT" QUADRANT FROM SOUTH"
300 PRINT"TO HELP YOU YOU ARE ALSO GIVEN VELOCITIES OF BOTH ";

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310 PRINT"ENEMY SHIP   AND YOUR MISSILE"
311 PRINT"ALL DISTANCES ARE IN STANDARD   FEDERATION LEAGUES ")
312 PRINT"(1SFL=3000KM)"
313 PRINT"ALL VELOCITIES ARE IN SFL/S"
314 PRINT"YOUR QUADRANT IS 1000X1000 SFL"
315 PRINT"REST OF THE OPEN SPACE IS           GUARDED BY AUTOMATIC",
316 PRINT" DEFENCE   STATIONS"
320 PRINT"TO CONTINUE HIT RETURN KEY"
330 INPUTQ$
340 CLS
341 PRINT" ":PRINT:PRINT:PRINT
342 PRINT"WHAT LEVEL OF GAME DO YOU WANT   TO PLAY 1,2,3 OR 4?"
343 PRINT"AT LEVEL   2 - 4   YOU CAN CONTROLSPEED OF YOUR MIS";
344 PRINT"FILE IF YOU   WISH.";
345 PRINT"IF YOU TYPE 'U' AFTER YOUR   DIRECTION SEPARATED BY ";
346 PRINT"COMMA   SPEED WILL INCREASE 'D' WILL   DECREASE IT"
347 INPUTA1
348 IFA1=1THENLETD2=6
349 IFA1=2THENLETD2=4
350 IFA1=3THENLETD2=3
352 IFA1=4THENLETD2=2
355 CLS
356 REM MISSILE AND SHIP COORDINATES
358 XM=0:YM=0
360 LETX=RND(400)+600
370 LETY=RND(400)+600
380 LETSP=INT(RND(60)+40)
390 LETSM=INT(RND(70)+30)
400 LETM=INT(SQR(X^2+Y^2)/SP)
402 LETD1=SQR((X-XM)^2+(Y-YM)^2)
403 LETD=SQR(X^2+Y^2)
410 PRINT:PRINT:PRINT:PRINT
420 PRINTTAB(10)"ATTENTION"
430 PRINT"UNIDENTIFIED SPACECRAFT HAS   ENTERED YOUR";
440 PRINT" QUADRANT.ALL   ATTEMPTS TO CONTACT THE SHIP ";
450 PRINT"   HAVE FAILED SO FAR"
460 PRINT"YOU HAVE";M;"MINUTES BEFORE ENEMYFORCES REACH YOUR ";
470 PRINT"STATION AND TOFIRE YOUR MISSILE TO DESTROY THESHIP"
484 FORK=1TO5
485 SOUND5,4:SOUND12,6
486 NEXTK
487 PRINT"HIT RETURN KEY TO CONTINUE"
490 INPUTQ$
500 CLS
520 FORJ=1TO50
530 IFJ=1THEN1230
540 LETAM=AM/(360/(2*3.1416))
550 LETN=RND(200)
560 IFN>6THENGOTO754
570 IFN=1THEN620
580 IFN=2THEN640
590 IFN=3THEN660
600 IFN=4THEN680
610 IFN=5THEN700
613 CLS
614 PRINT:PRINT:PRINT,
615 PRINT"YOUR MISSILE EXPLODED, YOU HAVE   ";M;" MINUTES TO";

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616 PRINT "ESCAPE BEFORE"
617 PRINT "YOUR STATION IS OCCUPIED BY          ENEMY FORCES."
618 GOTO 750
620 CLS
621 PRINT:PRINT:PRINT
622 PRINT "MY SCANNERS INDICATE AN UNARMED TRADING SHIP THERE";
625 PRINT " IS PROBABLY FAULT IN THEIR COMMUNICATIONS ";
630 PRINT "YOU CAN CALL THE ALARM OFF"
635 GOTO 750
640 CLS
642 PRINT:PRINT:PRINT
643 PRINT "THE SHIP HAS BROKEN THE RADIO  SILENCE AND IDENTIFI";
645 PRINT "ED ITSELF ASA FEDERATION BATTLECRUISER UNDERCOMMAND";
650 PRINT " OF YOUR BEST FRIEND          CAPTAIN STARDUST. YOU CAN ";
655 PRINT "GET  CHAMPAGNE CHILLED - ARRIVAL IS  EXPECTED IN ";M;
656 PRINT " MINUTES"
657 GOTO 750
660 CLS
661 PRINT:PRINT:PRINT
662 PRINT "SHIP WAS IDENTIFIED AS A FEDE  RATION PATROL SHIP ";
663 PRINT "AND IS BADLY DAMAGED. GET YOUR REPAIR CREW  READY";
666 PRINT " AND STANDBY. SOME MEDICAL HELP WILL BE NEEDED"
670 GOTO 750
680 CLS
681 PRINT:PRINT:PRINT
683 PRINT "AN ENEMY SHIP HAS ACCIDENTALY  EXPLODED";D;"SFL AWAY"
685 PRINT "YOU CAN CALL ALARM OFF AND ENJOY YOUR DINNER"
690 GOTO 750
700 CLS
701 PRINT:PRINT:PRINT
702 PRINT "MY SCANNERS INDICATE A FLEET OF ENEMY SHIPS FOLLOWIN";
705 PRINT "G AND YOU  CANNOT POSSIBLY STOP THEM. YOU HAVE";M;
710 PRINT " MINUTES TO PACK YOUR  VALUABLES AND TAKE A FRENCH";
711 PRINT "      LEAVE"
750 PRINT "WOULD YOU LIKE TO TRY AGAIN(Y/N)"
752 INPUT Q$
753 IF Q$="Y" THEN 340 ELSE END
754 LET AP=ATN(Y/X)
760 LET Z=D/1000
770 LET ZA=RND(25)+Z
780 LET ZB=RND(25)+Z
783 X1=X:Y1=Y:X2=XM:Y2=YM
790 LET X=INT(X-SP*COS(AP)+ZA)
800 LET Y=INT(Y-SP*SIN(AP)+ZB)
880 LET XM=INT(XM+SM*SIN(AM))
890 LET YM=INT(YM+SM*COS(AM))
900 LET D1=INT(SQR((X-XM)^2+(Y-YM)^2))
910 LET D=INT(SQR(X^2+Y^2))
920 LET M=INT(SQR(X^2+Y^2)/SP)+5
970 IF D1<D2 THEN 1160
1000 IF D>SP THEN 1050
1010 CLS
1015 CLS
1020 PRINT:PRINT:PRINT
1025 PRINT "ENEMY SHIPS HAVE JUST LANDED AND YOUR FORCES ";
1030 PRINT "SURRENDERED.          BAD LUCK"
1035 PRINT "WOULD YOU LIKE TO TRY AGAIN(Y/N)"

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1040 INPUTQ$
1045 IFQ$="Y"THEN340ELSEEND
1050 IFD1<5THEN1160
1055 IFD1>SM+SPTHEN1230
1060 X3=(X-X1)/10:Y3=(Y-Y1)/10
1070 X4=(XM-X2)/10:Y4=(YM-Y2)/10
1080 FORL1=1TO10
1090 X1=X1+X3:Y1=Y1+Y3
1100 X2=X2+X4:Y2=Y2+Y4
1110 D1=INT(SQR((X1-X2)^2+(Y1-Y2)^2))
1120 IFD1<D2THEN1160
1130 NEXTL1
1150 GOTO1230
1155 CLS
1160 CLS
1161 PRINT:PRINT:PRINT:PRINT
1170 PRINT"CONGRATULATIONS YOUR MISSILE HASJUST DESTROYED THE "
1180 PRINT"ENEMY SHIP."
1190 PRINT"NOW YOU HAVE TIME TO RELAX AND CELEBRATE."
1200 PRINT"DO YOU WANT TO PLAY AGAIN(Y/N)"
1210 INPUTQ$
1220 IFQ$="Y"THEN340ELSEEND
1230 CLS
1231 REM COORDINATE PRINTOUT
1233 SOUND9,6
1235 PRINT"ENEMY SHIP IS";D;"SFL"
1243 PRINT"FROM YOU"
1245 PRINT
1250 PRINT"DISTANCE IN SFL"
1260 PRINT"ENEMY SHIP MISSILE"
1270 PRINT"SOUTH:";Y;" ";YM
1280 PRINT"EAST :";X;" ";XM
1285 PRINT
1290 PRINT"ENEMY SHIP IS";D1;
1300 PRINT"SFL"
1305 PRINT"FROM YOUR MISSILE"
1306 PRINT
1310 PRINT"VELOCITY IN SFL/S"
1320 PRINT"ENEMY SHIP MISSILE"
1330 PRINTUSING"####.#";SP;
1331 PRINT" ";
1335 PRINTUSING"####.#";SM
1336 PRINT"YOUR DIRECTION IN DEGREES?"
1337 IFA1=1THEN1340
1338 INPUTQ$,A$
1339 GOTO1350
1340 INPUTQ$
1350 IFQ$="R"THEN1400
1360 LETAM=VAL(Q$)
1362 IFA1=1THEN1730
1363 REM VELOCITY UPDATE
1364 IFA$="U"ANDSM<97THENLETSM=SM+3
1365 IFA$="D"ANDSM>3THENLETSM=SM-3
1370 GOTO1730
1390 REM RADAR SCAN - GRAPHICS
1400 LETE=X/1000*126:LETF=Y/1000*60
1403 LETE1=XM/1000*126:LETF1=YM/1000*60

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1406 MODE(1)
1407 C$=INKEY$
1408 IFC$=" " THEN GOTO 1230
1410 COLOR 2
1420 SET(1,0):SET(2,0):SET(0,1)
1430 SET(1,1):SET(2,1):SET(3,1)
1440 SET(0,2):SET(1,2):SET(2,2)
1450 SET(3,2):SET(1,3):SET(2,3)
1460 COLOR 4
1470 FOR I=1 TO 3
1480 SET(E,F+I)

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1500 NEXT
1505 C$=INKEY$
1506 IFC$=" " THEN 1230
1510 SET(E+1,F):SET(E+1,F+1)
1520 SET(E+2,F+1):SET(E,F+3)
1530 SET(E+1,F+2):SET(E+1,F+2)
1540 SET(E+2,F+2):SET(E+2,F+3)
1542 C$=INKEY$
1543 IFC$=" " THEN 1230
1545 IFE1<0 OR F1<0 THEN 1590
1547 IFE1>120 OR F1>60 THEN 1590
1550 COLOR 3
1555 FOR I=1 TO 3
1556 SET(E1+1,F1+I)
1558 NEXT
1560 SET(E1+1,F1):SET(E1,F1+1)
1570 SET(E1+2,F1+1):SET(E1,F1+2)
1580 SET(E1+2,F1+2):SET(E1+2,F1+2)
1590 COLOR 2

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1600 FOR I=1 TO 120
1610 SET(I,I/2):SET(I,60)
1620 NEXT
1625 C$=INKEY$
1626 IFC$=" " THEN 1230
1630 FOR I=3 TO 60
1640 SET(0,I)
1650 NEXT
1660 FOR I=1 TO 2
1670 SET(24,61+I):SET(48,61+I)
1680 SET(72,61+I):SET(96,61+I)
1685 C$=INKEY$
1686 IFC$=" " THEN 1230
1690 SET(96,61+I):SET(120,61+I)

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1700 SET(I,12):SET(I,24):SET(I,36)
1710 SET(I,48):SET(I,60)
1720 GOTO 1407
1730 NEXT J
1800 PRINT " "
1810 FOR I=1 TO 13:PRINT " "
1820 PRINT " "
1830 RETURN

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"",NEXT